

401673

15/OCT/93

**FIELD TRIP REPORT FOR
LEVEL 3
SITE INSPECTION PRIORITIZATION
OF
BISHOP TUBE COMPANY SITE
FRAZER, CHESTER COUNTY, PENNSYLVANIA**

PREPARED UNDER

ARCS CONTRACT NUMBER 68-W8-0092

WORK ASSIGNMENT NUMBER 92-31-3JZZ

CERCLIS NUMBER PAD081868309

USEPA DSN PA-0568

FOR THE

HAZARDOUS WASTE MANAGEMENT DIVISION

U.S. ENVIRONMENTAL PROTECTION AGENCY

SUBMITTED BY

(b) (4)

Environmental Scientist

REVIEWED BY

(b) (4)

Project Manager

APPROVED BY

(b) (4)

Program Director



TCN 4231-10

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1.0 FIELD TRIP REPORT

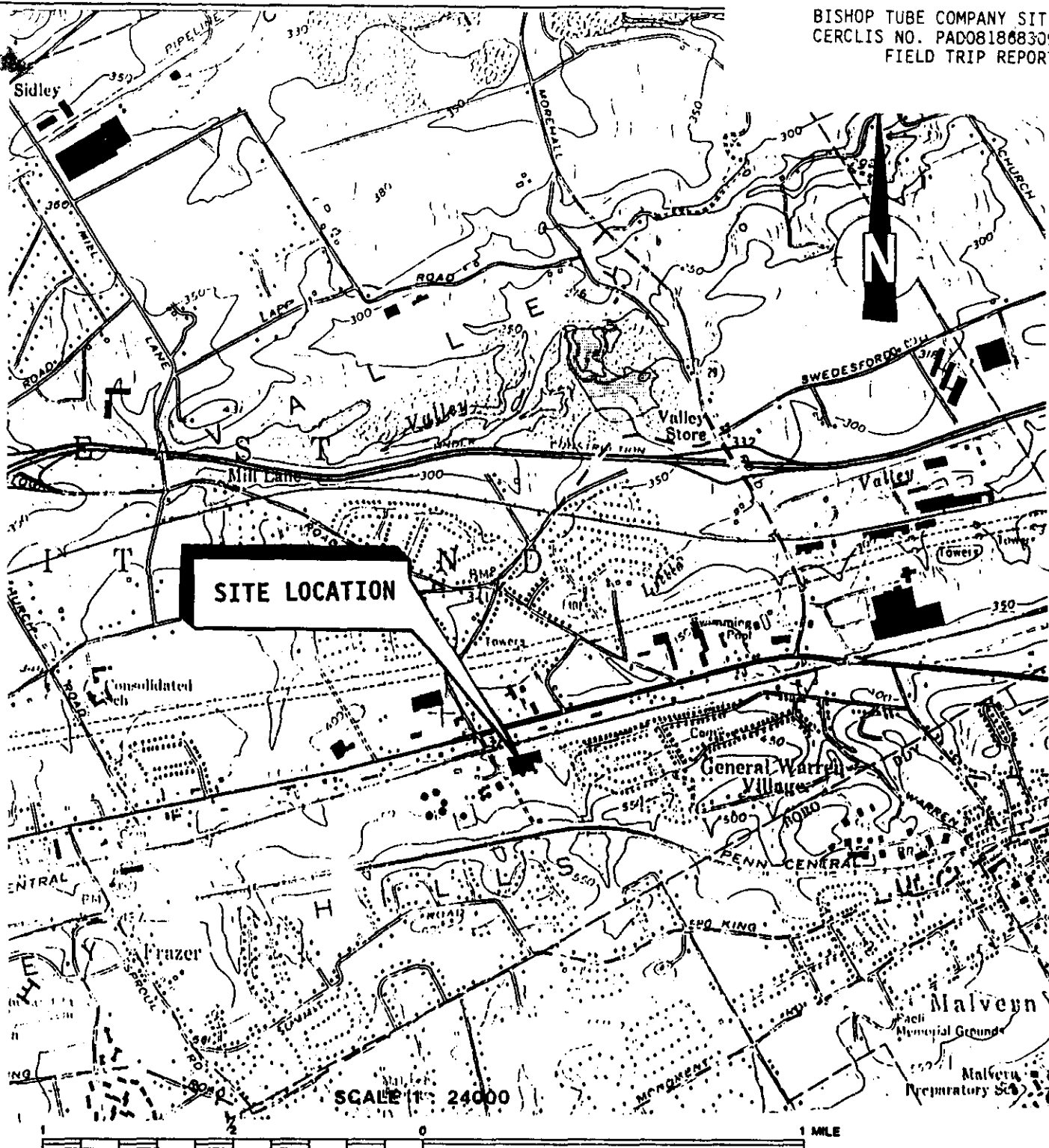
1.1 Summary

On Wednesday, June 23, 1993, Tetra Tech, Incorporated personnel (b) (4) [REDACTED], conducted sampling for a Level 3 Site Inspection Prioritization (SIP) of the Bishop Tube Company site in Frazer, Chester County, Pennsylvania (Figure 1 and Figure 2). Site access was granted by Mr. Russell Levering, Damascus-Bishop Tube Company. The sampling team was accompanied by Mr. Bruce R. Cushing, P.G. of BCM Engineers, who collected split samples on behalf of Christiana Metals, the property owner. The weather at the time of the site visit was cool and sunny with temperatures in the 60° F.

A total of four (4) low-concentration solid samples, nine (9) aqueous low-concentration environmental samples, and two (2) quality assurance/quality control samples were collected. Samples are listed on Table 1. Well Sampling Log Sheets are included as Attachment 1. Samples were submitted through USEPA's Contract Laboratory Program (CLP) to be analyzed for volatile organic compounds on USEPA's Target Compound List, and metals and cyanide on USEPA's Target Analyte List. In addition, ground water samples from the monitoring wells were filtered and submitted for dissolved metals analysis. As per the task work plan approved by USEPA, samples were not submitted for organic semi-volatile, pesticides, or polychlorinated biphenyls (PCBs) analyses. Sample locations are shown on Figure 3. QA/QC samples included a field blank, a trip blank, a duplicate solid sample, a duplicate aqueous sample. In addition, extra volume for one solid sample and one aqueous sample, was sent to the laboratory for samples designated as matrix spike/matrix spike duplicate (MS/MSD) samples.

The USEPA sample shipping log and chain of custody forms are included as Attachment 2.

There were no deviations from the task work plan.



SOURCE: USGS TOPOGRAPHIC MAPS,
MALVERN, PENNSYLVANIA QUADRANGLE

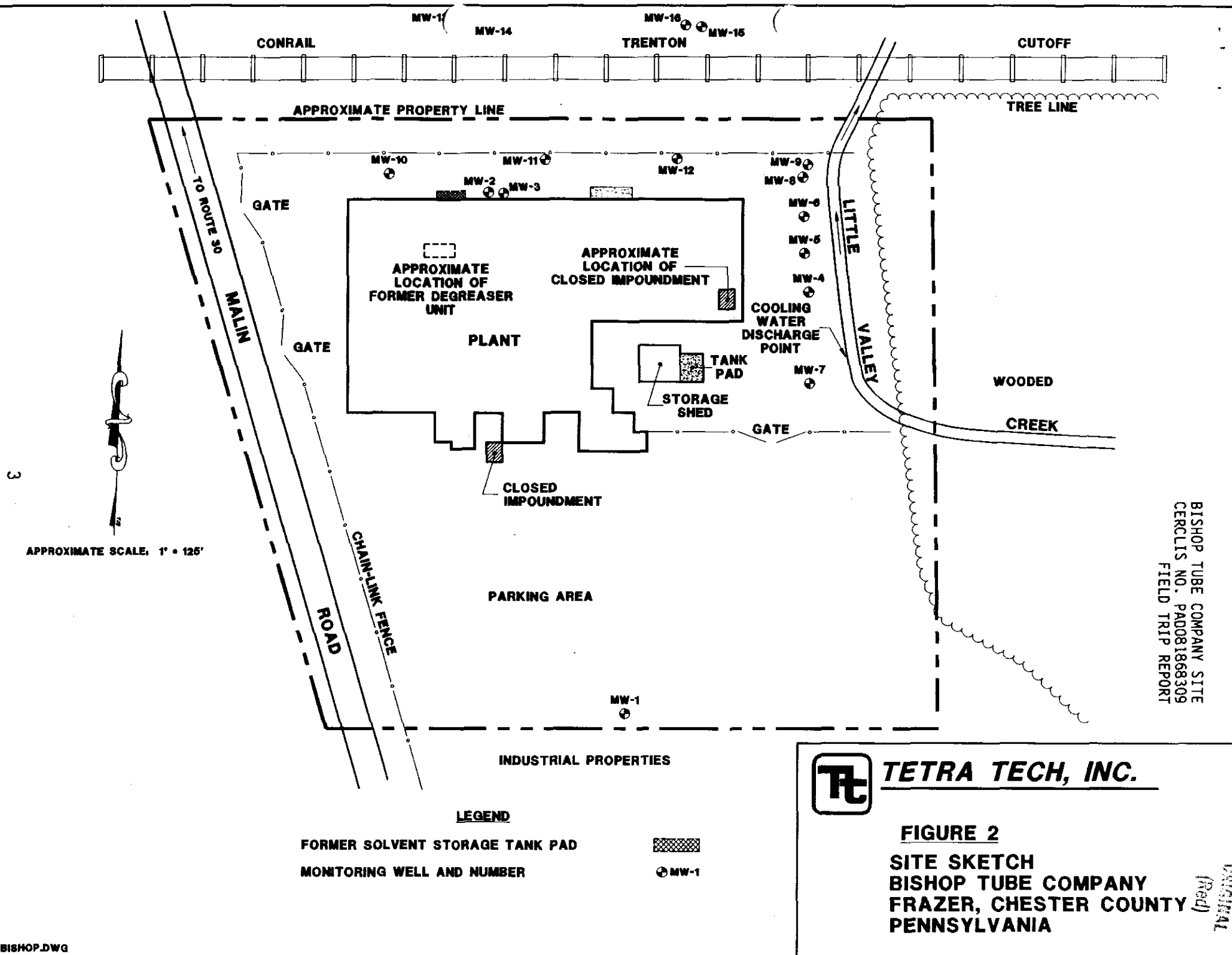


QUADRANGLE LOCATION



TETRA TECH, INC.

FIGURE 1
SITE LOCATION MAP
BISHOP TUBE COMPANY SITE
FRAZER, CHESTER CO., PA



Original
(Red)

Table 1. Sampling Summary for Bishop Tube Company Site (Sheet 1 of 2)

Organic CLP#	Inorganic CLP#	Dissolved Metals CLP#	Sample Designation	Matrix	Sample Location	Sample Description	Field Measurements
CNA97	-----	-----	BSP-TB-01	AQUEOUS	TRIP BLANK	-----	-----
CNA60	MCLF60	MCLF98	BSP-FB-01	AQUEOUS	FIELD BLANK	-----	-----
CNA51	MCLF51	MCLF46	BSP-MW-01	AQUEOUS	Bishop Tube Co. monitoring well 01; background well located approximately 300 feet south of plant building.	Clear, Odorless	Temp: 12.0 C Cond: .087 pH: 6.11
CNA55	MCLF55	MCLF50	BSP-MW-15	AQUEOUS	Bishop Tube Co. monitoring well 15; approximately 200 feet north of plant building (off site).	Clear, Odorless	Temp: 13.0 Cond: 3.59 pH: 7.14
CNA56	MCLF56	MCLF99	BSP-MW-16	AQUEOUS	Bishop Tube Co. monitoring well 16; paired with monitoring well 15.	Clear, Odorless	Temp: 13.8 Cond: not taken pH: 7.26
CNA52	MCLF52	MCLF47	BSP-MW-02	AQUEOUS	Bishop Tube Co. monitoring well 02; on-site well located in former TCE tank area adjacent to northern side of building.	Clear, Odorless	Temp: 15.9 Cond: 0.467 pH: 7.13 PID reading: 2.8 ppm
CNA54	MCLF54	MCLF49	BSP-MW-21	AQUEOUS	Duplicate of BSP-MW-02	See above	see above
CNA53	MCLF53	MCLF48	BSP-MW-03	AQUEOUS	Bishop Tube Co. monitoring well 03; paired with MW-02	Clear, Odorless	Temp: 17.6 Cond: not taken pH: 7.40
CNA58	MCLF58	N/A	BSP-SW-03	AQUEOUS	Little Valley Creek downstream of site, approximately 10 feet northeast of site property.	Clear, Odorless	No PID readings above background
CNA63	MCLF63	N/A	BSP-SED-03	SEDIMENT	Same as BSP-SW-03	Brownish-gray silty clay	No PID readings above background
CNA59	MCLF59	N/A	BSP-SW-02	AQUEOUS	Little Valley Creek on site, approximately 30 feet north (downstream) of cooling water outfall	Clear, Odorless	No PID readings above background

Table 1. Sampling Summary for Bishop Tube Company Site (Sheet 2 of 2)							
Organic CLP#	Inorganic CLP#	Dissolved Metals CLP#	Sample Designation	Matrix	Sample Location	Sample Description	Field Measurements
CNA62	MCLF62	N/A	BSP-SED-02	SEDIMENT	Same as BSP-SW-02	Brown silty sand small metallic shavings present	No PID readings above background
CNA57	MCLF57	N/A	BSP-SW-01	AQUEOUS	Little Valley Creek in wooded area approximately 25 feet upstream of site property line.	Clear, Odorless	No PID readings above background
CNA61	MCLF61	N/A	BSP-SED-01	SEDIMENT	Same as BSP-SW-01	Brown sandy silt	No PID readings above background

PID = Photo Ionization Detector

Cond = Conductivity

Temp = Temperature

1.2 Persons Contacted

1.2.1 Prior to Field Trip

Mr. Russell G. Levering
Plant Engineer/Buyer
Damascus-Bishop Tube Company
P.O. Box 1189
Route 30 & Malin Road
Frazer, Pennsylvania 19355
(215) 647-3450

Mr. Mike Guiranna
Site Assessment Manager, Region III
USEPA
841 Chestnut Building
Philadelphia, Pennsylvania 19107
(215) 597-3165

Mr. John J. McAleese III
Attorney
Morgan, Lewis & Bockius
2000 One Logan Square
Philadelphia, PA 19103
(215) 963-5094

Mr. George Danyliw
Pennsylvania Department of Environmental Resources
Lee Park, Suite 6010
555 North Lane
Conshohocken, PA 19428
(215) 832-6212

1.2.2 At the Site

Mr. Bruce R. Cushing, P.G.
BCM Engineers
One Plymouth Meeting
Plymouth Meeting, PA 19462
(215) 825-3800

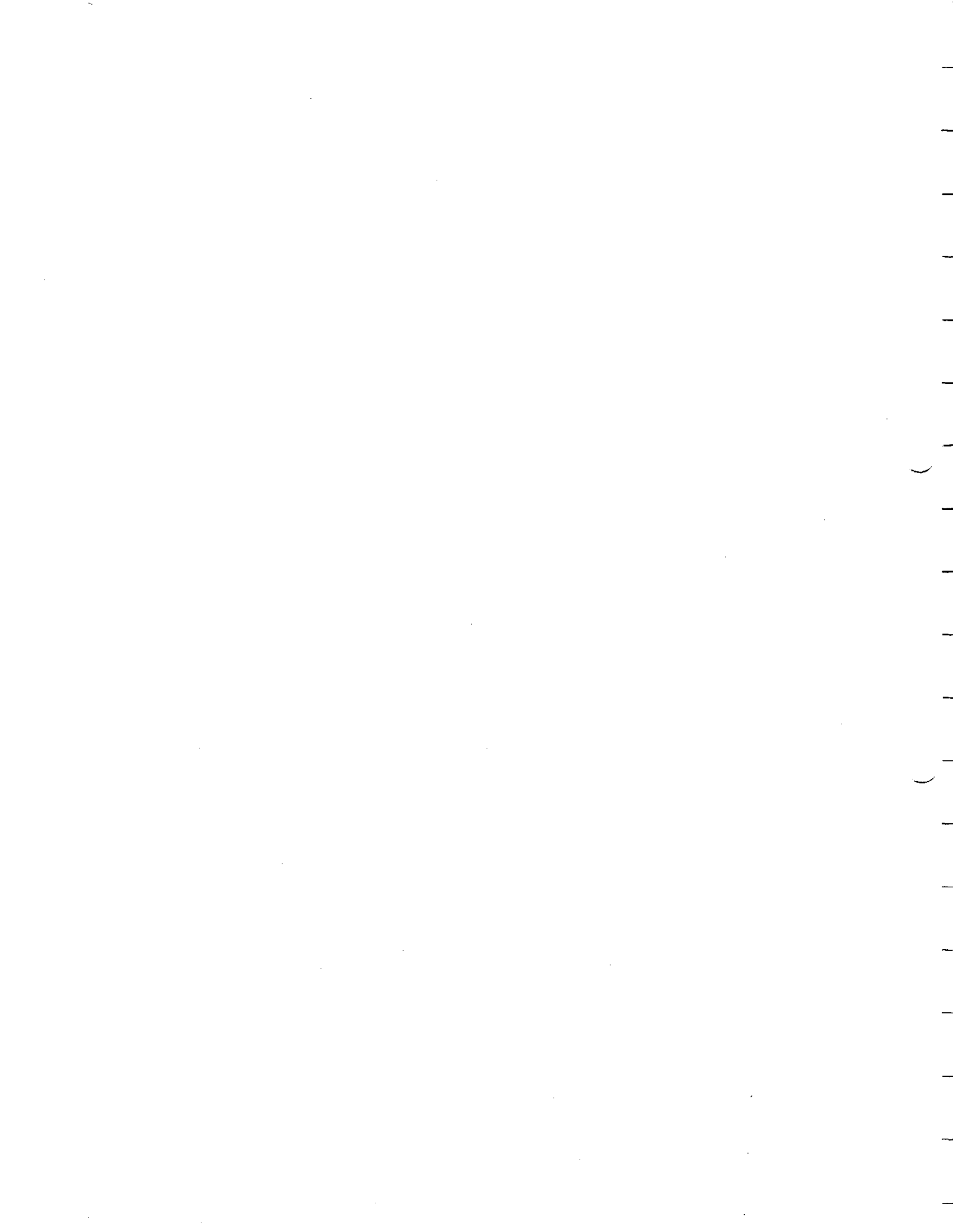
Mr. Russell G. Levering
Plant Engineer/Buyer
Damascus-Bishop Tube Company
P.O. Box 1189
Route 30 & Malin Road
Frazer, Pennsylvania 19355
(215) 647-3450

Mr. John J. McAleese III
Attorney
Morgan, Lewis & Bockius
2000 One Logan Square
Philadelphia, PA 19103
(215) 963-5094

1.3 Site Observations

- The solvent cleaning system is no longer in use; the above-ground TCE tank has been removed.
- Monitoring Well MW-15 was an artesian well; water began flowing from the top of the casing when the cap was removed.
- Drainage from the site flowed into Little Valley Creek on the eastern side of the site.
- The site was active at the time of the sampling visit.
- The site was approximately 90 percent paved.
- Access to the site was restricted by a chain-link fence.

ATTACHMENT 1.



TETRA TECH, INC. WELL SAMPLING LOG		SHEET: 1 OF 1													
PROJECT: Bishop Tube		PROJECT NO: T4231-10													
WELL DESIGNATION: MW-16		DATE: 9/29/93													
SAMPLE DESIGNATION: BSP-MW-16		ANALYSES: VOC, Cyanide, and Total & Dissolved Metals													
VOLUME OF WATER TO BE REMOVED (1) Depth to bottom of well (from TOC) 21.90 ft (2) Depth to water (from TOC) 8.10 ft (3) Column of water (#1 - #2) 13.80 ft (4) Casing Diameter 4 in (5) Volume Conversion (from table) .653 gal/ft (6) Volume of Water (#3 x #5) 9.01 gal (7) Number of volumes to be evacuated 3 (8) Total volume to be removed (#6 x #7) 27.0 gal Method of purging (pump, bailer) pump		VOLUME CONVERSION: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Casing Diameter</th> <th style="text-align: left;">Gallons/Feet</th> </tr> <tr> <td>2"</td> <td>0.163</td> </tr> <tr> <td>4"</td> <td>0.653</td> </tr> <tr> <td>6"</td> <td>1.469</td> </tr> <tr> <td>8"</td> <td>2.611</td> </tr> <tr> <td>10"</td> <td>4.08</td> </tr> </table>		Casing Diameter	Gallons/Feet	2"	0.163	4"	0.653	6"	1.469	8"	2.611	10"	4.08
Casing Diameter	Gallons/Feet														
2"	0.163														
4"	0.653														
6"	1.469														
8"	2.611														
10"	4.08														
FIELD ANALYSES															
	START	MID	FINISH												
TIME	1141	1155	1156												
ORP	68	59	58												
pH	7.13	7.23	7.26												
CONDUCTIVITY	.402	.420	.439												
TEMPERATURE	13.5	14.0	13.8												
TOTAL VOLUME PURGED: 30 gal.		TIME: 1156													
NOTES: 1141 - 2 gpm, water started clear, but changed to a light dark brown color; 1156 - well dry															
LOGGED BY: (b) (4)															

ORIGINAL
(Red)

TETRA TECH, INC. WELL SAMPLING LOG		SHEET: 1 OF 1	
PROJECT: Bishop Tube		PROJECT NO: T4231-10	
WELL DESIGNATION: MW-1		DATE: 9/29/93	
SAMPLE DESIGNATION: BSP-MW-1		ANALYSES: VOC, Cyanide, and Total & Dissolved Metals	
VOLUME OF WATER TO BE REMOVED (1) Depth to bottom of well (from TOC) <u>47.40</u> ft (2) Depth to water (from TOC) <u>16.18</u> ft (3) Column of water (#1 - #2) <u>31.22</u> ft (4) Casing Diameter <u>4</u> in (5) Volume Conversion (from table) <u>.653</u> gal/ft (6) Volume of Water (#3 x #5) <u>20.39</u> gal (7) Number of volumes to be evacuated <u>3</u> (8) Total volume to be removed (#6 x #7) <u>61.17</u> gal Method of purging (pump, bailer) <u>pump</u>		VOLUME CONVERSION: Casing Diameter Gallons/Feet 2" 0.163 4" 0.653 6" 1.469 8" 2.611 10" 4.08	
FIELD ANALYSES			
	START	MID	FINISH
TIME	0958	1005	1011
ORP	129	123	136
pH	6.07	6.11	6.14
CONDUCTIVITY	.096	.080	.087
TEMPERATURE	11.7	11.8	11.8
TOTAL VOLUME PURGED: 65+ gal.		TIME: 1011	
NOTES: 0953 - water clear and colorless, purge rate 5 gpm; 1011 - water clear and colorless.			
LOGGED BY: (b) (4)			

TETRA TECH, INC. WELL SAMPLING LOG		SHEET: 1 OF 1													
PROJECT: Bishop Tube		PROJECT NO: T4231-10													
WELL DESIGNATION: MW-2		DATE: 9/29/93													
SAMPLE DESIGNATION: BSP-MW-2		ANALYSES: VOC, Cyanide, and Total & Dissolved Metals													
VOLUME OF WATER TO BE REMOVED (1) Depth to bottom of well (from TOC) 22.95 ft (2) Depth to water (from TOC) 8.23 ft (3) Column of water (#1 - #2) 14.72 ft (4) Casing Diameter 4 in (5) Volume Conversion (from table) .653 gal/ft (6) Volume of Water (#3 x #5) 9.61 gal (7) Number of volumes to be evacuated 3 (8) Total volume to be removed (#6 x #7) 28.83 gal Method of purging (pump, bailer) pump		VOLUME CONVERSION: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Casing Diameter</th> <th style="text-align: left;">Gallons/Feet</th> </tr> <tr> <td>2"</td> <td>0.163</td> </tr> <tr> <td>4"</td> <td>0.653</td> </tr> <tr> <td>6"</td> <td>1.469</td> </tr> <tr> <td>8"</td> <td>2.611</td> </tr> <tr> <td>10"</td> <td>4.08</td> </tr> </table>		Casing Diameter	Gallons/Feet	2"	0.163	4"	0.653	6"	1.469	8"	2.611	10"	4.08
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2"	0.163														
4"	0.653														
6"	1.469														
8"	2.611														
10"	4.08														
FIELD ANALYSES															
	START	MID	FINISH												
TIME	1517	1522	1527												
ORP	08	-57	-66												
pH	7.26	7.14	7.13												
CONDUCTIVITY	.450	.461	.467												
TEMPERATURE	15.4	15.9	15.9												
TOTAL VOLUME PURGED: 30 gal.		TIME: 1527													
NOTES: 1517 - 3 gpm, water is clear light brown.															
LOGGED BY: (b) (4)															

ORIGINAL
(Red)

TETRA TECH, INC. WELL SAMPLING LOG		SHEET: 1 OF 1													
PROJECT: Bishop Tube		PROJECT NO: T4231-10													
WELL DESIGNATION: MW-3		DATE: 9/29/93													
SAMPLE DESIGNATION: BSP-MW-3		ANALYSES: VOC, Cyanide, and Total & Dissolved Metals													
VOLUME OF WATER TO BE REMOVED (1) Depth to bottom of well (from TOC) 14.00 ft <hr style="width: 100px; margin-left: 0;"/> (2) Depth to water (from TOC) 7.57 ft <hr style="width: 100px; margin-left: 0;"/> (3) Column of water (#1 - #2) 6.43 ft <hr style="width: 100px; margin-left: 0;"/> (4) Casing Diameter 4 in <hr style="width: 100px; margin-left: 0;"/> (5) Volume Conversion (from table) .653 gal/ft <hr style="width: 100px; margin-left: 0;"/> (6) Volume of Water (#3 x #5) 4.2 gal <hr style="width: 100px; margin-left: 0;"/> (7) Number of volumes to be evacuated 3 <hr style="width: 100px; margin-left: 0;"/> (8) Total volume to be removed (#6 x #7) 12.6 gal <hr style="width: 100px; margin-left: 0;"/> Method of purging (pump, bailer) pump		VOLUME CONVERSION: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Casing Diameter</th> <th style="text-align: left;">Gallons/Feet</th> </tr> <tr> <td>2"</td> <td>0.163</td> </tr> <tr> <td>4"</td> <td>0.653</td> </tr> <tr> <td>6"</td> <td>1.469</td> </tr> <tr> <td>8"</td> <td>2.611</td> </tr> <tr> <td>10"</td> <td>4.08</td> </tr> </table>		Casing Diameter	Gallons/Feet	2"	0.163	4"	0.653	6"	1.469	8"	2.611	10"	4.08
Casing Diameter	Gallons/Feet														
2"	0.163														
4"	0.653														
6"	1.469														
8"	2.611														
10"	4.08														
FIELD ANALYSES															
	START	MID	FINISH												
TIME	1600	1612													
ORP	-40	6													
pH	7.56	7.40													
CONDUCTIVITY	.327	-													
TEMPERATURE	17.5	17.6													
TOTAL VOLUME PURGED: 8 gal.		TIME: 1612													
NOTES: 1600 - 2 gpm; 1602 - dry, 4 gal; 1609 - 1 gpm; 1612 - well dry, 4 gal.															
LOGGED BY: (b) (4)															

ORIGINAL
(Red)

TETRA TECH, INC. WELL SAMPLING LOG		SHEET: 1 OF 1													
PROJECT: Bishop Tube		PROJECT NO: T4231-10													
WELL DESIGNATION: MW-15		DATE: 9/29/93													
SAMPLE DESIGNATION: BSP-MW-15		ANALYSES: VOC, Cyanide, and Total & Dissolved Metals													
VOLUME OF WATER TO BE REMOVED (1) Depth to bottom of well (from TOC) <u>79.45</u> ft (2) Depth to water (from TOC) <u>0.0*</u> ft (3) Column of water (#1 - #2) <u>79.45</u> ft (4) Casing Diameter <u>4</u> in (5) Volume Conversion (from table) <u>.653</u> gal/ft (6) Volume of Water (#3 x #5) <u>51.9</u> gal (7) Number of volumes to be evacuated <u>3</u> (8) Total volume to be removed (#6 x #7) <u>155.6</u> gal Method of purging (pump, bailer) <u>pump</u>		VOLUME CONVERSION: <table> <thead> <tr> <th>Casing Diameter</th> <th>Gallons/Feet</th> </tr> </thead> <tbody> <tr> <td>2"</td> <td>0.163</td> </tr> <tr> <td>4"</td> <td>0.653</td> </tr> <tr> <td>6"</td> <td>1.469</td> </tr> <tr> <td>8"</td> <td>2.611</td> </tr> <tr> <td>10"</td> <td>4.08</td> </tr> </tbody> </table> * flowing over top of casing.		Casing Diameter	Gallons/Feet	2"	0.163	4"	0.653	6"	1.469	8"	2.611	10"	4.08
Casing Diameter	Gallons/Feet														
2"	0.163														
4"	0.653														
6"	1.469														
8"	2.611														
10"	4.08														
FIELD ANALYSES															
	START	MID	FINISH												
TIME	1236	1249													
ORP	40	-16													
pH	7.19	7.14													
CONDUCTIVITY	.360	.359													
TEMPERATURE	13.4	13.0													
TOTAL VOLUME PURGED: 66 gal.		TIME: 1304													
NOTES: 1236 - 5 gpm, water is clear and colorless; 1241 - water level dropped to level of pump, well dry, 31 gal; 1253 - well dry, 20 gal. purged; 1301 - started purging; 1304 - well dry, 15 gal; 66 gal. total.															
LOGGED BY: (b) (4)															

ATTACHMENT 2.

ORIGINAL
(Red)

EPA SAMPLE SHIPPING LOG

(REQUIRED FOR ALL SAMPLES SENT THROUGH THE CONTRACT LAB PROGRAM)

PROJECT SITE NAME: BISHOP TUBE CO EPA PROJ. OFFICER: Mike Giuranna
 RAS NO. 20899 SAS NO. _____ TASK OR SET NO. _____
 PROJECT SITE LEADER: (b) (4) PHONE NO. 738-7551
 PROJECT SAMPLE COOR: _____ PHONE NO. 738-7551

SAS REQUEST (DETAILS REQUIRED)
(10)

QC SAMPLE INFORMATION AND/OR COMMENTS	CONC (LOW/ MED/ HIGH)	SAMPLE PHASE (AQ/ SOL)	TYPE OF REQUEST (ORG.DIO OR INOR) SAS)	EPA SAMPLE NO.	ORGANICS OR INORGANICS											
					LAB NAME	DATE SHIPPED	DATA RECEIVED (XX-OUT ITEMS NOT REQUESTED)						LAB NAME	SAS REQUEST (ITEMIZE)	DATE SHIP'D	DATA REC'D
							VOA	BNA	PEST	TCDD	METALS	CN				
(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)						(11)	(12)	(13)	
	LOW	AQ	INORG	MCLF 51	ETS	9/29/93										
		AQ		MCLF 46												
		AQ		MCLF 52												
		AQ		MCLF 47												
MS/MSD		AQ		MCLF 53												
MS/MSD		AQ		MCLF 48												
		AQ		MCLF 55												
		AQ		MCLF 50												
		AQ		MCLF 56												
		AQ		MCLF 99												
dup of MCLF 52		AQ		MCLF 54												
dup of MCLF 47		AQ		MCLF 49												
		AQ		MCLF 57												
		AQ		MCLF 59												
		AQ		MCLF 58												
				MCLF 61												
				MCLF 62												

FINAL SAMPLING: YES ☒ NO ☐ FINAL SHIPPING DATE: 9/29/93

REVISION 02/90

010100
(Rad)

SAS REQUEST (DETAILS REQUIRED)
(10)

REVISION 02/90

**Inorganic Traffic Rep
& Chain of Custody Record**
(For Inorganic CLP Analysis)

SAS No.
(if applicable)

Case No.

20890

[illegible]

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature) (b) (4)	Date / Time 9/29/93 1800	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Received by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

EPA Form 9110-1 (Rev. 5-91) Replaces EPA Form (2075-6), previous edition which may be used

DISTRIBUTION:

Green - Region Copy Pink - SMO Copy White - Lab Copy Yellow - Lab Copy for Return to SMO

Split Samples	<input checked="" type="checkbox"/> Accepted	(b) (4)
	<input type="checkbox"/> Declined	

ORIGINAL
(Red)



United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Inorganic Traffic Report & Chain of Custody Record

(For Inorganic CLP Analysis)

SAS No.
(if applicable)

Case No.

20899

ORIGINAL
(Red)

1. Project Code 4231-10	Account Code	2. Region No. III	Sampling Co. Tetra Tech	4. Date Shipped 9/29/93	Carrier Fed Ex	6. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaOH 4. H2SO4 5. K2CR2O7 6. Ice only 7. Other (SAS) (Specify) N. Not preserved	7. Sample Description (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil (SAS) 7. Waste (SAS) 8. Other (SAS) (Specify)
Regional Information		(b) (4)		Airbill Number 0573587862			
Non-Superfund Program				5. Ship To ETS Analytical Services 1401 Municipal Rd. N.W. Roanoke, VA 24012 Attn: Susan Sheppard			
Site Name Bishop Tube Co		4. Type of Activity					
City, State Fraser, PA		Site Spill ID					
		SF PRP ST FED		Lead Remedial RIFS RD RA O&M NPLD		Removal CLEM REMA REM OIL UST	

CLP Sample Numbers (from labels)	A Enter # from Box 7	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative from Box 6	E - RAS Analysis							F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Org. Samp. No.	K Designated Field QC
					Total	Dissolved	Cyanide	Nitrate/ Nitrite	Fluoride	pH	Conductivity						
MCLF 54	2	L	G	2/3	X	X						3-1179531	BSP MW-21	9/29/93 1530	GJD	CNA 54	dup of MCLF 52
MCLF 49	2	L	G	2		X						3-1179533	BSP MW-21	9/29/93 1530	GJD	-	dup of MCLF 47
MCLF 57	1	L	G	2/3	X	X						3-1179543	BSP SW-01	9/29/93 1345	CAS	CNA 57	
MCLF 59	1	L	G	2/3	X	X						3-1179531	BSP SW-02	9/29/93 1130	TJS	CNA 59	
MCLF 58	1	L	G	2/3	X	X						3-1179531	BSP SW-03	9/29/93 0945	TJS	CNA 58	
MCLF 61	5	L	G	6	X	X						3-1179569	BSP SED-01	9/29/93 1400	CAS	CNA 61	
MCLF 62	5	L	G	6	X	X						3-1179572	BSP SED-02	9/29/93 1145	TJS	CNA 62	
MCLF 63	5	L	G	6	X	X						3-1179571	BSP SED-03	9/29/93 1000	TJS	CNA 63	MS/MSD
MCLF 64	5	L	G	6	X	X						3-1179581	BSP SED-04	9/29/93 1130	TJS	CNA 64	dup of MCLF 62
MCLF 60	3	L	G	2/3	X	X						3-1179543	BSP FR-01	9/29/93 0915	TAD	CNA 60	field blank
Shipment for Case complete? (Y/N)		Page 1 of 3		Sample used for a spike and/or duplicate		(b) (4)		Chain of Custody Seal Number									

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature) (b) (4)	Date / Time 9/29/93 1800	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Received by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

EPA Form 9110-1 (Rev. 5-91) Replaces EPA Form (2075-6), previous edition which may be used

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Split Samples ☒ Accepted ☐ Declined

(b) (4)

040529



United States Environmental Protection Agency
Contract Laboratory Program Sample Management
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Inorganic Traffic Report & Chain of Custody Record (For Inorganic CLP Analysis)

SAS No.
(if applicable)

Case No.

20899

1. Project Code 4231-10		Account Code		2. Region No. III		Sampling Co. Tetra Tech		4. Date Shipped/Carrier 9/29/93 Fed Ex		6. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaOH 4. H2SO4 5. K2Cr2O7 6. Ice only 7. Other (SAS) (Specify) N. Not preserved		7. Sample Description (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil (SAS) 7. Waste (SAS) 8. Other (SAS) (Specify)				
Regional Information				(b) (4)				Airbill Number 0573587862								
Non-Superfund Program								5. Ship To ETS Analytical Services 1401 Municipal Rd NW Roanoke VA 24012 Attn: Susan Sheppard								
Site Name Bishop Tube Co				4. Type of Activity SF <input checked="" type="checkbox"/> Lead PRP <input type="checkbox"/> PA ST <input type="checkbox"/> SS FED <input type="checkbox"/> LSI				Remedial RIFS RD RA O&M NPLD				Removal CLEM REMA REM OIL UST				
City, State Frazier, PA				Site Spill ID												
CLP Sample Numbers (from labels)		A Enter # from Box 7	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E - RAS Analysis Metals Total Dissolved Cyanide Nitrate Nitrite Fluoride Low Conc. High pH Conductivity				F Regional Specific Tracking Number or Tag Numbers		G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Org. Samp. No.	K Designated Field QC
MCLF51	2	L	G	2/3	X	X					3-1179504	BSP MW 01	9/29/93 1200	GJD	CNA 51	
MCLF46	2	L	G	2		X					3-1179506	BSP MW 01	9/29/93 1200	GJD	-	
MCLF52	2	L	G	2/3	X	X					3-1179510	BSP MW 02	9/29/93 1530	GJD	CNA 52	
MCLF47	2	L	G	2		X					3-1179512	BSP MW 02	9/29/93 1530	GJD	-	
MCLF53	2	L	G	2/3	X	X					3-1179522	BSP MW 03	9/29/93 1620	GJD	CNA 53	MS/MSD
MCLF48	2	L	G	2		X					3-1179527	BSP MW 03	9/29/93 1620	GJD	-	MS/MSD
MCLF55	2	L	G	2/3	X	X					3-1179531	BSP MW 15	9/29/93 1310	GJD	CNA 55	
MCLF50	2	L	G	2		X					3-1179539	BSP MW 15	9/29/93 1310	GJD	-	
MCLF56	2	L	G	2/3	X	X					3-1179540	BSP MW 16	9/29/93 1305	GJD	CNA 56	
MCLF99	2	L	G	2		X					3-1179542	BSP MW 16	9/29/93 1205	GJD	-	
Shipment for Case complete? (Y/N)		Page 1 of 3		Sample used for a spike and/or duplicate MCLF53 MCLF48				(b) (4)				Chain of Custody Seal Number				

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
(b) (4)	Date / Time 9/29/93 1800	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none
Split Samples <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Declined			(b) (4)		

EPA Form 9110-1 (Rev. 5-91) Replaces EPA Form (2075-6), previous edition which may be used

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1019596

1009 1

ORIGINAL
(Red)

EPA SAMPLE SHIPPING LOG

(REQUIRED FOR ALL SAMPLES SENT THROUGH THE CONTRACT LAB PROGRAM)

contaminant
(Red)

PROJECT SITE NAME: BISHOP TUBE CO. EPA PROJ. OFFICER: Mike Giuranna
 RAS NO. 20899 SAS NO: _____ TASK OR SET NO. _____
 PROJECT SITE LEADER: (b) (4) PHONE NO. (301) 738-7551
 PROJECT SAMPLE COOR: _____ PHONE NO. (301) 738-7551

SAS REQUEST (DETAILS REQUIRED)
(10)

QC SAMPLE INFORMATION AND/OR COMMENTS	CONC (LOW/ MED/ HIGH)	SAMPLE PHASE (AQ/ SOL)	TYPE OF REQUEST (ORG.DIO OR INOR) SAS)	EPA SAMPLE NO.	ORGANICS OR INORGANICS											LAB NAME	SAS REQUEST (ITEMIZE)	DATE SHIP'D	DATA REC'D
					LAB NAME	DATE SHIPPED	DATA RECEIVED (XX-OUT ITEMS NOT REQUESTED)												
							VOA	BNA	PEST	TCDD	METALS	CN							
(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)						(11)	(12)	(13)				
	LOW	AQ	ORG	CNA51	NYTEST	9/29/93													
		AQ		CNA 52															
MS/MSD		AQ		CNA 53															
		AQ		CNA 55															
		AQ		CNA 56															
dup of CNA52		AQ		CNA 54															
		AQ		CNA 57															
		AQ		CNA 59															
		AQ		CNA 58															
Field Blank		AQ		CNA 60															
Trip Blank		AQ		CNA 97															
		SOL		CNA 61															
		SOL		CNA 62															
MS/MSD		SOL		CNA 63															
dup of CNA62	↓	SOL	↓	CNA 64	↓	↓													



United States Environmental Protection Agency
Contract Laboratory Program Sample Management
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

SAS No.
(if applicable)

Case No.

20899

1. Project Code 4231.10	Account Code	2. Region No. III	Sampling Co. TetraTech	4. Date Shipped 9/29/93	Carrier Fed Ex	6. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Other (SAS) (Specify) 6. Ice only N. Not preserved	7. Sample Description (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil (SAS) 7. Waste (SAS) 8. Other (SAS) (Specify)
Regional Information		(b) (4)		Airbill Number 0573587851			
Non-Superfund Program				5. Ship To NY Test Environmental 60 Seaview Blvd Port Washington NY 11050 Attn: Robert Fletcher			
Site Name Bishop Tube Co.		3. Type of Activity SF <input checked="" type="checkbox"/> Remedial PRP <input type="checkbox"/> PA <input type="checkbox"/> ST <input type="checkbox"/> SS <input checked="" type="checkbox"/> FED <input type="checkbox"/> LST <input type="checkbox"/>		Removal RIFS <input type="checkbox"/> CLEM <input type="checkbox"/> RD <input type="checkbox"/> REMA <input type="checkbox"/> RA <input type="checkbox"/> REM <input type="checkbox"/> O&M <input type="checkbox"/> OIL <input type="checkbox"/> NPLD <input type="checkbox"/> UST <input type="checkbox"/>			
City, State Fraser PA		Site Spill ID					

CLP Sample Numbers (from labels)	A Enter # from Box 7	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative from Box 6	E RAS Analysis				F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Designated Field QC
					VOA	BNA	Pest/PCB	High ARO/TOX						
CNA 51	2	L	G	1	X				3-1179501	BSP. MW. 01	9/29/93 1220	GJD	MCLF 51	—
CNA 52	2	L	G	1	X				3-1179502	BSP. MW. 02	9/29/93 1530	GSD	MCLF 52	
CNA 53	2	L	G	1	X				3-1179513	BSP. MW. 03	9/29/93 1600	GJD	MCLF 53	MS/MSD
CNA 55	2	L	G	1	X				3-1179534	BSP. MW. 15	9/29/93 1310	GJD	MCLF 55	
CNA 56	2	L	G	1	X				3-1179513	BSP. MW. 16	9/29/93 1605	GJD	MCLF 56	
CNA 54	2	L	G	1	X				3-1179528	BSP. MW. 21	9/29/93 1530	GJD	MCLF 54	dup of CNA 52
CNA 57	1	L	G	1	X				3-1179544	BSP. SW. 01	9/29/93 1315	CAS	MCLF 57	
CNA 59	1	L	G	1	X				3-1179551	BSP. SW. 02	9/29/93 1130	TJS	MCLF 59	—
CNA 58	1	L	G	1	X				3-1179556	BSP. SW. 03	9/29/93 0945	TJS	MCLF 58	—
CNA 60	3	L	G	1	X				3-1179563	BSP. FB. 01	9/29/93 0915	JAD	MCLF 60	Field Blank
Shipment for Case complete? (Y/N)		Page 1 of 2		Sample used for a spike and/or duplicate CNA 53		(b) (4)		Chain of Custody Seal Number						

CHAIN OF CUSTODY RECORD

(b) (4)	Date / Time 9/29/93 1800	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Received by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

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Split Samples ☒ Accepted (b) (4)
☐ Declined

0019542

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No.
(if applicable)

Case No.

Case No. 20890

ORIGINAL
(Red)

1. Project Code 4231-10		Account Code		2. Region No. III TetraTech		Carrier 9-29-93 Fed Ex		6. Preservative (Enter in Column D)		7. Sample Description (Enter in Column A)				
Regional Information				(b) (4)				Airbill Number 0573587851						
Non-Superfund Program								5. Ship To NY Test Environmental Inc 60 Seaview Blvd Port Washington NY 11050 Attn: Robert Fletcher						
Site Name Bishop Tube Co				3. Type of Activity				Remedial Removal						
City, State Frazier, PA				Site Spill ID										
CLP Sample Numbers (from labels)		A Enter # from Box 7	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative from Box 6	E RAS Analysis			F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Designated Field QC
					VOA	BNA	Pest/PCB	High ARO/TOX						
CNA 97	3	L	G	1	X				3-1179582-Hm	BSP.TB.01	9/29/93 115	JAO	-	trip blank
CNA 61	5	L	G	6	X				3-1179582-Hm	BSP.SED.01	9/29/93 1000	CAS	MCLF61	-
CNA 62	5	L	G	6	X				3-1179582-Hm	BSP.SED.02	9/29/93 1145	TJS	MCLF62	-
CNA 63	5	L	G	6	X				3-1179582-Hm	BSP.SED.03	9/29/93 1000	TJS	MCLF63	MS/MSD
CNA 64	5	L	G	6	X				3-1179582-Hm	BSP.SED.04	9/29/93 1145	TJS	MCLF64	dup of CNA 63
Shipment for Case complete? (Y/N)		Page 2 of 2		Sample used for a spike and/or duplicate CNA 63				(b) (4)		Chain of Custody Seal Number				

CHAIN OF CUSTODY RECORD

(b) (4)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)	
	9/29/13 1800					
	Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
	Received by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

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Split Sample	(b) (4)
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(b) (4)